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CONFIDENTIALCENTRAL INTELLIGENCE AGENCY
INFORMATION REPORT

50X1-HUM

COUNTRY USSR

SUBJECT New Type of 'Streamline Subcaliber Projectile' for
'76 mm Gun, ZIS-3 (1942 Model)/Official Data of New
Projectile/Other Projectiles

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SUPP. TO
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THIS IS UNEVALUATED INFORMATION

1. [redacted] the '76 mm gun ZIS-3, 1942 model, has received a new type of 'streamlined subcaliber projectile' to fight tanks at distances of up to 500 meters. At distances exceeding 500 meters this streamlined projectile loses its piercing capacity.

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2. "The official data of the new projectile are as follows:

- | | | |
|----|---|--------------------|
| a. | Index of projectile | BR-350p |
| | Index of case | UBR-350p |
| b. | Weight of projectile | 3.02 kg |
| | Weight of case | 0.79 kg |
| | Weight of charge in case | 0.36 kg |
| c. | Total weight of unitary shot | 4.17 kg |
| d. | The initial velocity of the projectile 'BR-350p' is | 950 meters/second. |

3. "The piercing capacity of the new type 'BR-350p' as against the armor of the former German 'Koenigstiger' tank under a 90° angle is as follows:

- | | | | | | | |
|----|-------------------------|-------|-------|-------|-------|-------|
| a. | Distance | 100 m | 200 m | 300 m | 400 m | 500 m |
| b. | Piercing quality in mm. | 140 | 130 | 105 | 105 | 94 |

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4. "The armor-piercing projectile of the old type 'BR-350' pierced under an angle of 90°:

a.	Distance	100 m.	500 m.
b.	Thickness of armor	85 mm.	69 mm.

5. "The 76 mm. guns have two more new projectiles. One of these is 'D-350' which is a 'phosphorous projectile' and yields a large cloud of white smoke on explosion. The duration of the cloud is 10-12 seconds, and on exploding the projectile throws out little pieces of burning white phosphorous in a radius of 15 meters. The other projectile is 'Z-350', a long range incendiary shell with a range of 13,000 meters. It contains 'thermite segments' which on explosion are thrown forward like shrapnel, and on burning create a temperature of up to 3,000°C.
6. "The latest models of the '76 mm gun ZIS-3 of the 1942 type are provided with balloon tires (balonnye shiny) of the '6.00 x 20' type trucks, which have six layers of cord (kord). The balloons [balloon tires] are filled with spongy rubber (OK - gubchaty kauchuk).
7. "The velocity of these guns is up to 45 km/hours."

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